

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1- 34. (Canceled)

35. (Currently Amended) ~~The method of claim 26, further comprising:~~ A method comprising:

accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;

accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table, wherein the first plurality of macroblock information is associated with a first source macroblock and includes motion vector and quantization information;
generating a first estimated destination motion vector based on the first plurality of macroblock information;

accessing a second index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;

accessing a second plurality of macroblock information in a second order based on identifiers accessed from a second subset of the plurality of entries of the second index table, wherein the second plurality of macroblock information is associated with a second source macroblock and includes motion vector and quantization information; and

generating a second estimated destination motion vector based on the second plurality of macroblock information.

36. (Previously Presented) The method of claim 35, further comprising:
generating a first macroblock based on the first estimated destination motion vector;

generating a second macroblock based on the second estimated destination motion vector; and
 wherein the first and second macroblocks are to be displayed simultaneously.

37. – 46. (Canceled)

47. (Currently Amended) ~~The system of claim 44, further comprising:~~ A system comprising:

means for accessing a first index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;

means for accessing a first plurality of macroblock information in a first order based on identifiers accessed from a first subset of the plurality of entries of the first index table and wherein the first plurality of macroblock information is associated with a first source macroblock and includes motion vector and quantization information;

means for generating a first estimated destination motion vector based on the first plurality of macroblock information;

means for accessing a second index table comprising a plurality of entries, each entry comprising an identifier associated with a corresponding memory location storing corresponding macroblock information;

means for accessing a second plurality of macroblock information in a second order based on identifiers accessed from a second subset of the plurality of entries of the second index table and wherein the second plurality of macroblock information is associated with a second source macroblock and includes motion vector and quantization information; and

means for generating a second estimated destination motion vector based on the second plurality of macroblock information.

48. (Previously Presented) The system of claim 47, further comprising:

means for generating a first macroblock based on the first estimated destination motion vector;

means for generating a second macroblock based on the second estimated destination motion vector; and
wherein the first and second macroblocks are to be displayed simultaneously.

49. (Previously Presented) A method comprising:
accessing a first index table;
accessing a first plurality of macroblock information in a first order at a video decoder to generate a first decoded image, wherein the first order is based upon the first index table and the first plurality of macroblock information is associated with a source macroblock;
processing the first plurality of macroblock information to generate a first estimated destination motion vector;
accessing a second index table;
accessing a second plurality of macroblock information in a second order at the video decoder to generate a second decoded image, wherein the second order is based upon the second index table and the second plurality of macroblock information is associated with a source macroblock;
processing the second plurality of macroblock information to generate a second estimated destination macroblock information; and
generating a first macroblock based on the first estimated destination vector and a second macroblock based on the second estimated destination vector, wherein the first and second macroblocks are to be displayed simultaneously.